



NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**BASIC IMAGERY
INTERPRETATION
REPORT**

MOSCOW ABM-RELATED FACILITIES

DEPLOYED AAM FACILITIES

USSR

JUNE 1970

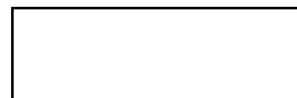
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INSTALLATION OR ACTIVITY NAME					COUNTRY	
Moscow ABM-Related Facilities					UR	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMREX NO.	NIETS NO.	
NA	See below	See below	See below	See below	See below	
MAP REFERENCE						

Various

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NEGATION DATE (if required)	
NA	

Installation Name	Coordinates
Moskva ABM Launch	
Complex EO3	56-23-43N 038-11-19E
Moskva ABM Launch	
Complex EO5	56-14-26N 038-34-09E
Moskva ABM Launch	
Complex E21	55-04-00N 037-01-00E
Moskva ABM Launch	
Complex E24	55-21-10N 036-29-24E
Moskva ABM Launch	
Complex E31	56-08-05N 036-29-37E
Moskva ABM Launch	
Complex E33	56-20-10N 036-48-07E
Moskva ABM Support	
Facility	55-18-00N 036-33-05E
Borovsk	
Naro-Fominsk ABM/Space	
Radar Site A	55-29-34N 036-41-30E
Naro-Fominsk ABM/Space Radar	
Site B	55-29-04N 036-38-59E
Chekhov ABM/Space	
Radar Site A	55-14-10N 037-18-00E
Chekhov ABM/Space	
Radar Site B	55-12-50N 037-18-10E

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ABSTRACT

An increase in the number of GALOSH missile canisters has been observed on recent photographic coverage of the four active ABM launch complexes and the Borovsk ABM support complex in the Moscow area. Construction progress is evident at Chekhov ABM/Space Radar Sites A and B. A control building and the foundation with some probable structural members for an antenna structure are present at radar site A. The A-frame antenna structure at radar site B now extends almost the entire length of the linear foundation.

This report summarizes the activities observed at the Moscow ABM-related facilities [redacted] A location map, six annotated photographs, and a table of the location and number of GALOSH missile canisters observed at these facilities [redacted] are included in this report.

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INTRODUCTION

The principal elements of the Moscow ABM system include Moscow ABM Launch Complexes EO3, EO5, E21, E24, E31, and E33, the Borovsk ABM Support Complex, Naro-Fominsk ABM/Space Radar Sites A and B, and Chekhov ABM/Space Radar Sites A and B (Figure 1). HEN HOUSE radars at Olenegorsk, Skrunda, and Sevastopol will probably provide ballistic missile early warning support for the Moscow ABM system; however, the radars are not described in this report.

[redacted] provided small-scale coverage of all ABM-related facilities deployed around Moscow. This report is based primarily on that photography and describes the changes and activities observed at these facilities since the previous NPIC summary report.¹ Measurements provided in this report are accurate [redacted] except where otherwise indicated.

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BASIC DESCRIPTION

MOSCOW ABM LAUNCH COMPLEXES E03 AND E21

Construction was suspended on Moscow ABM Launch Complexes E03 and E21 while they were relatively incomplete.² Photography showed no evidence of renewed construction activity at either launch complex.

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MOSCOW ABM LAUNCH COMPLEX E05

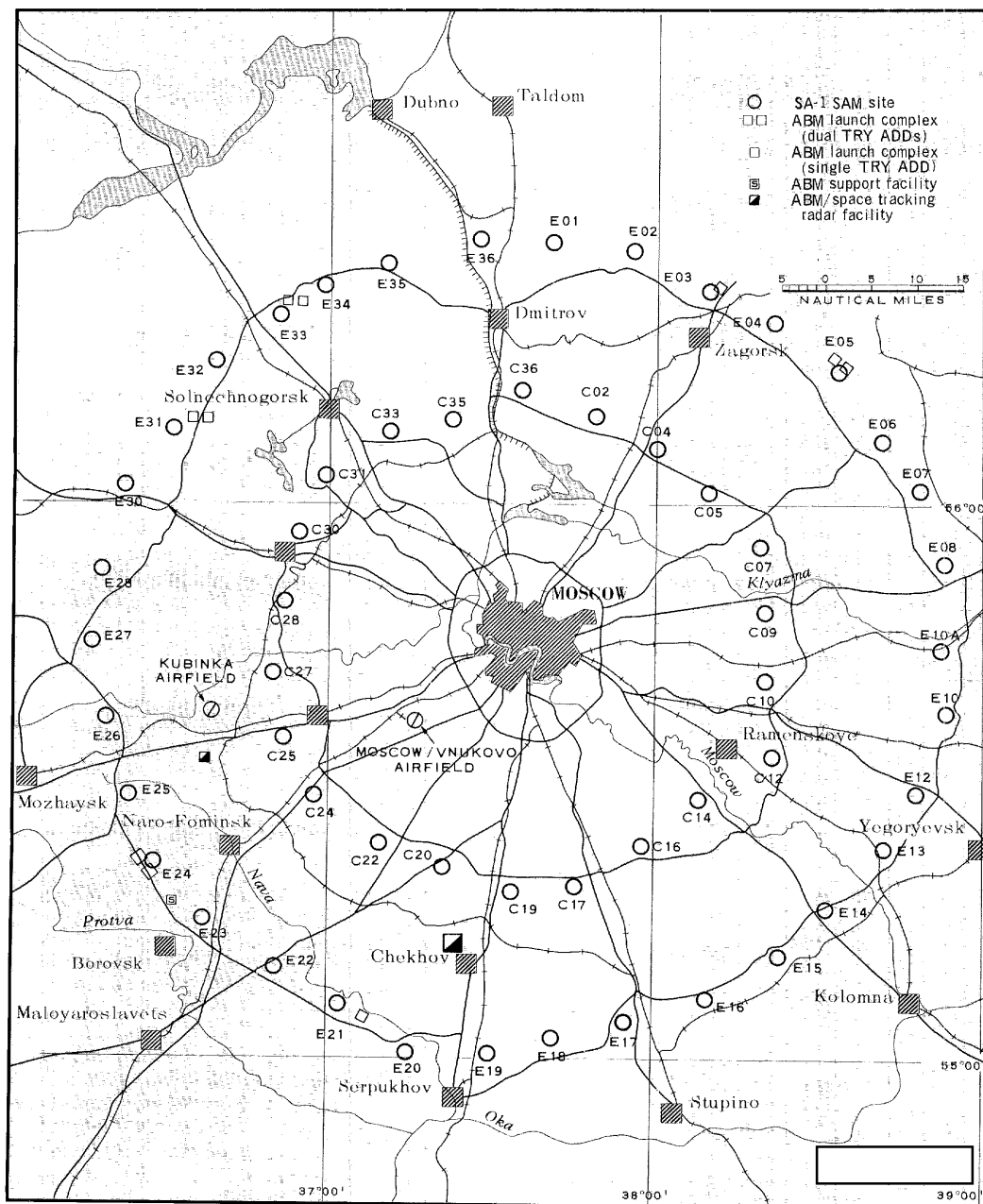
GALOSH missile canisters were observed (Table 1) on photography, the first coverage available at both TRY ADDs of the Moscow ABM Launch Complex E05 (Figure 2). This is the first time GALOSH missile canisters have been observed at TRY ADD 2.

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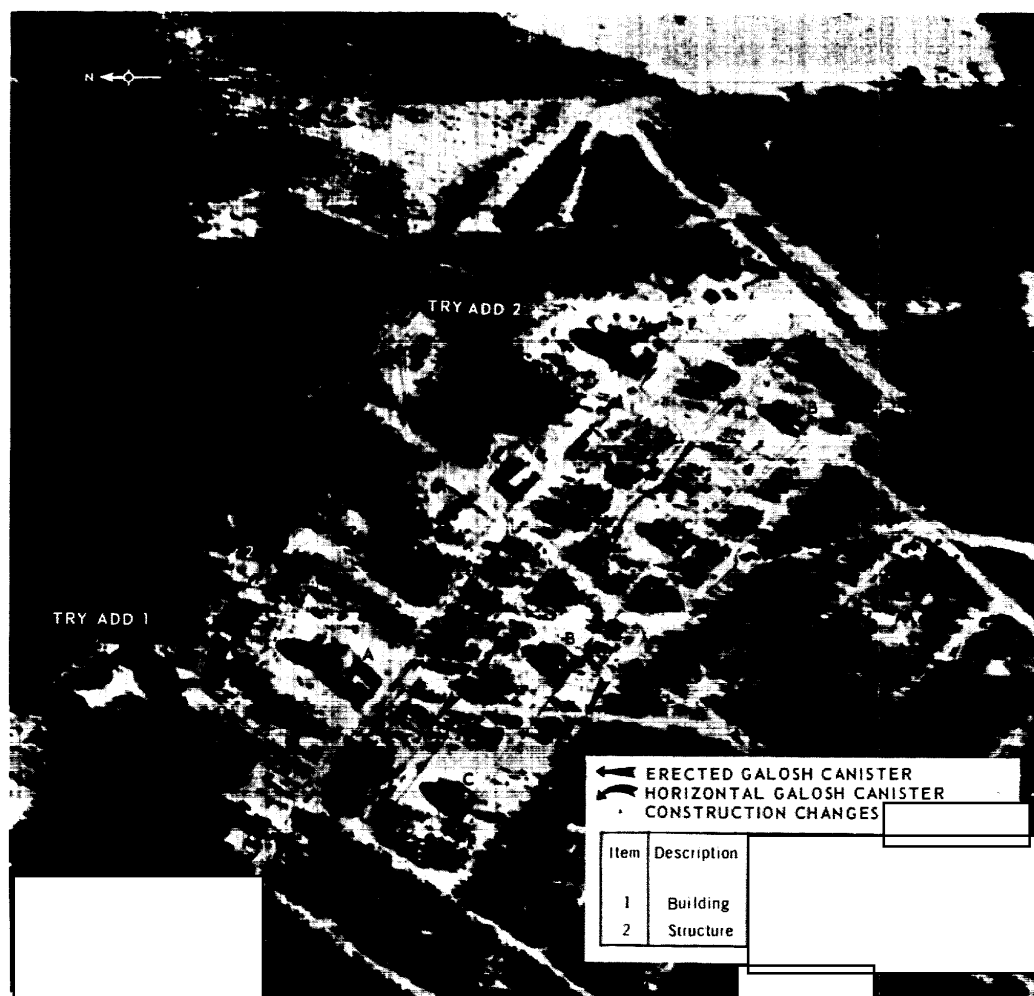
There were no structural changes observed on photography of TRY ADD 1. The wing addition to building A in TRY ADD 2 now appears to be externally complete. Several additional ancillary structures have been added to the launch area. A new building (Figure 2, item 1) has been constructed

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FIGURE 1. LOCATION OF MOSCOW ABM-RELATED FACILITIES



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FIGURE 2. LAUNCH AREA, MOSCOW ABM LAUNCH COMPLEX E05

immediately north of the large unidentified building. A new structure (item 2) is immediately east of the missile checkout building where an excavation and several prefabricated arch sections were observed [REDACTED]

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MOSCOW ABM LAUNCH COMPLEX E24

Six GALOSH missile canisters and a possible GALOSH missile canister are observed at Moscow ABM Launch Complex E24 (Figure 3) on coverage [REDACTED] Table 1). This is the largest number of GALOSH missile canisters observed to date at any Soviet ABM launch facility.

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There have been no major structural changes observed in the launch area or the support and housing area [REDACTED] some ground scarring was observed in the launch area between the loop road and the large unidentified building, indicating possible construction activity in this area. Prefabricated arch sections were observed at this scarred area [REDACTED]

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MOSCOW ABM LAUNCH COMPLEX E31

GALOSH missile canisters were first observed at Moscow ABM Launch Complex E31 (Figure 4) on photography [REDACTED] These canisters indicate that the complex now may be operational. A GALOSH missile canister was identified in the elevated position at both launch positions 2B1 and 2B4 of TRY ADD 2 (Table 1) on [REDACTED] photography.

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The wing addition to building A is probably externally complete at both TRY ADDs 1 and 2. The only additional construction activity identified at the complex [REDACTED] is the completion of the resurfacing of the roof on the large unidentified building.

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FIGURE 3. LAUNCH AREA, MOSCOW ABM LAUNCH COMPLEX E24

Table 1. GALOSH Canister Sighted At Moscow ABM-Related Facilities

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Facility	Number of GALOSH Canisters	Location of GALOSH Canisters
Moscow ABM Launch Complex E05	4	Launch positions 1B3, 1C1, 2B1, and 2C4
	3	Launch positions 1B3, 1C1, and 2C1
Moscow ABM Launch Complex E24	6	Launch positions 1B1, 1B3, 1C1, 1C3, 1C4, and 2B3
	1 Pos	Launch position 1C2
Moscow ABM Launch Complex E31	2	Launch positions 2B1 and 2B4
Moscow ABM Launch Complex E33	3	Launch positions 1B3, 1C2, and 1C3

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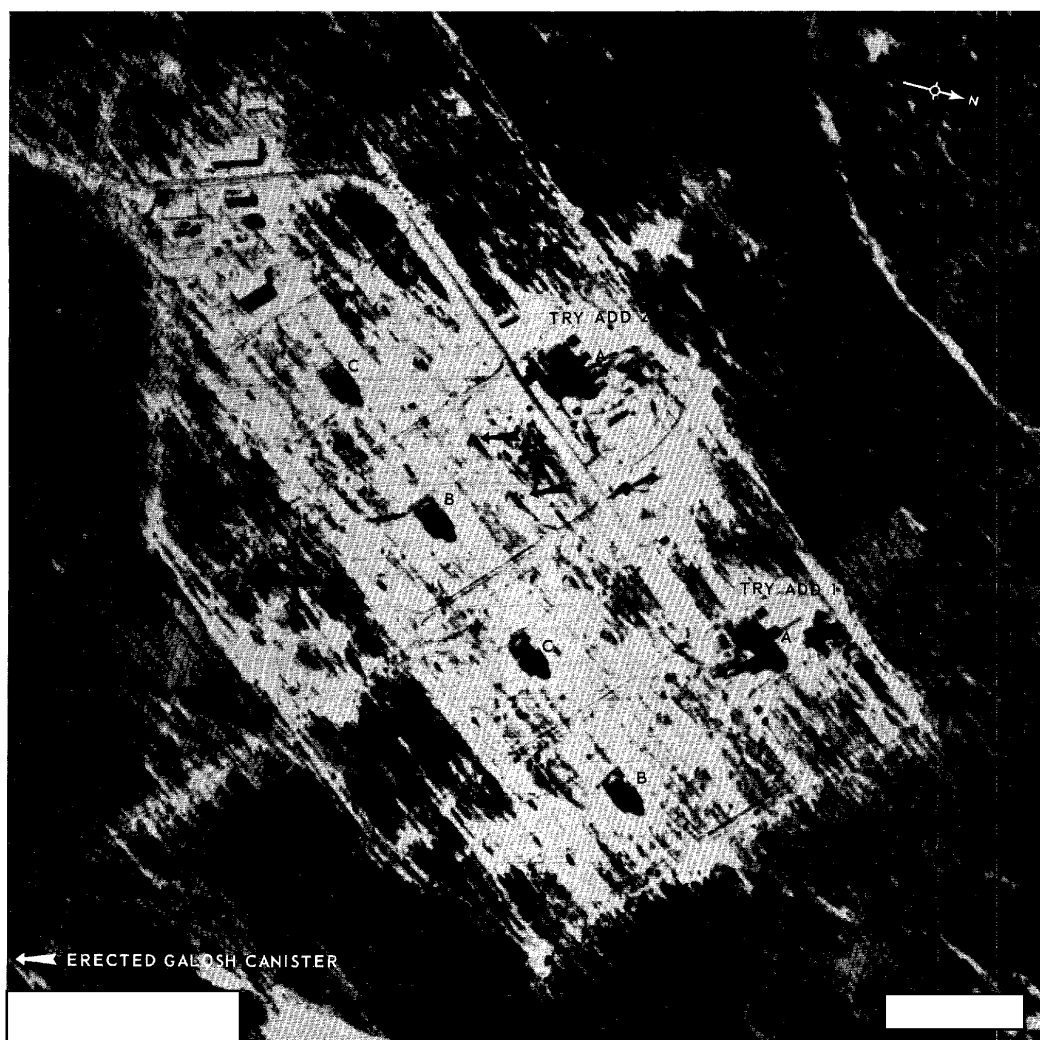
MOSCOW ABM LAUNCH COMPLEX E33

Moscow ABM Launch Complex E33 (Figure 5) also had an increase in the number of GALOSH missile canisters observed on photography (Table 1). Three GALOSH missile canisters were identified at TRY ADD 1; however, there were no canisters present at TRY ADD 2.

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FIGURE 4. LAUNCH AREA, MOSCOW ABM LAUNCH COMPLEX E31

Construction has been completed on several structures in the launch area since the previous coverage of the complex [REDACTED]. A building (Figure 5, item 1) has been erected on a previously reported foundation adjacent to the large unidentified building. Two additional small buildings adjacent to the complex entrance are also probably complete.

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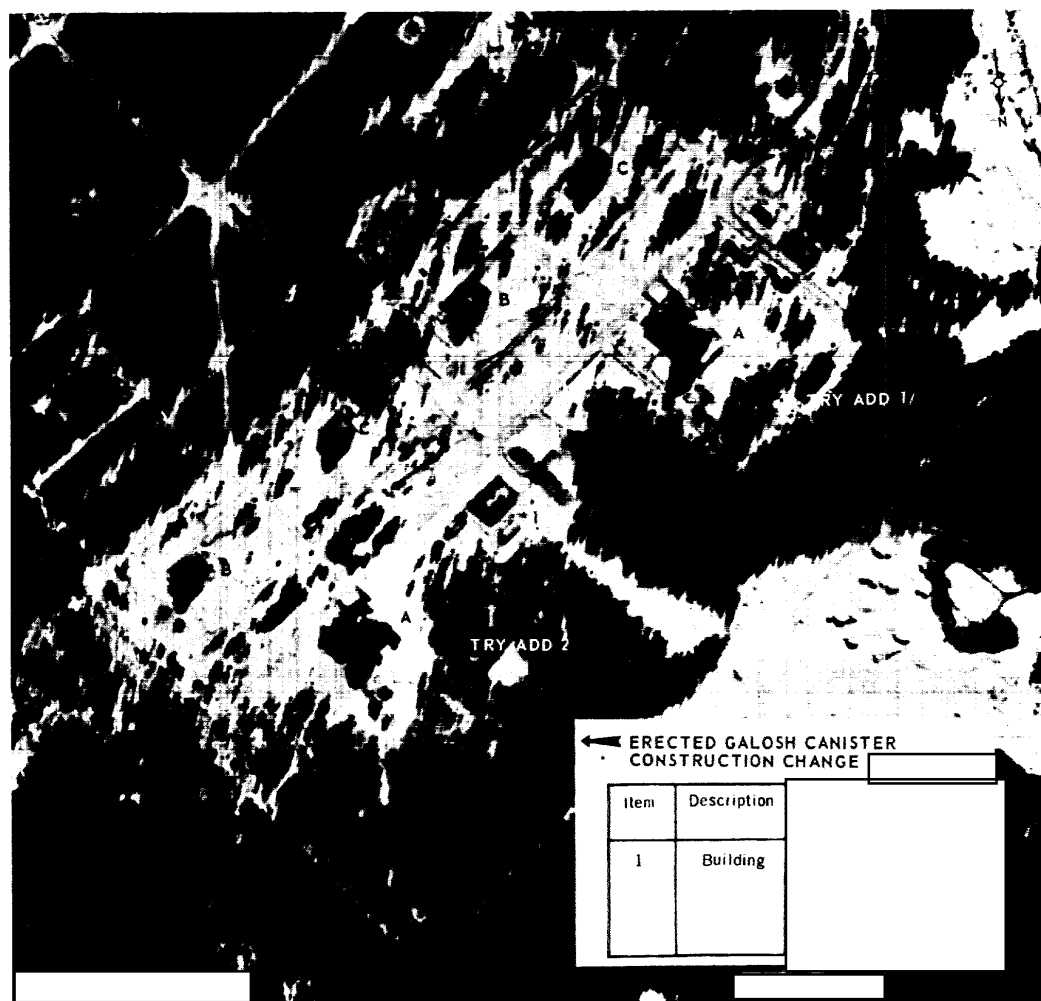


FIGURE 5. LAUNCH AREA, MOSCOW ABM LAUNCH COMPLEX E33

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NARO-FOMINSK ABM/SPACE RADAR SITES A AND B

Very few changes have been observed on photography of Naro-Fominsk ABM/Space Radar Sites A and B. Radar Site A has remained relatively unchanged. A new probable structure was identified immediately west of the north-northwest antenna. Several pieces of unidentified equipment have remained in front of the south-southeast antenna.

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There have been no changes observed in the Naro-Fominsk ABM/Space Radar Site B. Photography showed the tree clearance in front of the south-southeast antenna structure to be complete. The tree clearance extends in the direction of the boresight azimuth. The cleared area is fan shaped and extends outward from each end of the antenna structure on an angle of 35 degrees from the boresight azimuth.

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CHEKHOV ABM/SPACE RADAR SITES A AND B

Chekhov Probable ABM/Space Tracking Radar Facility has been renamed, and is now identified as two facilities: Chekhov ABM/Space Radar Site A which was previously designated North Operations Area, and Chekhov ABM/Space Radar Site B which incorporates the former South Operations Area (Figure 7).

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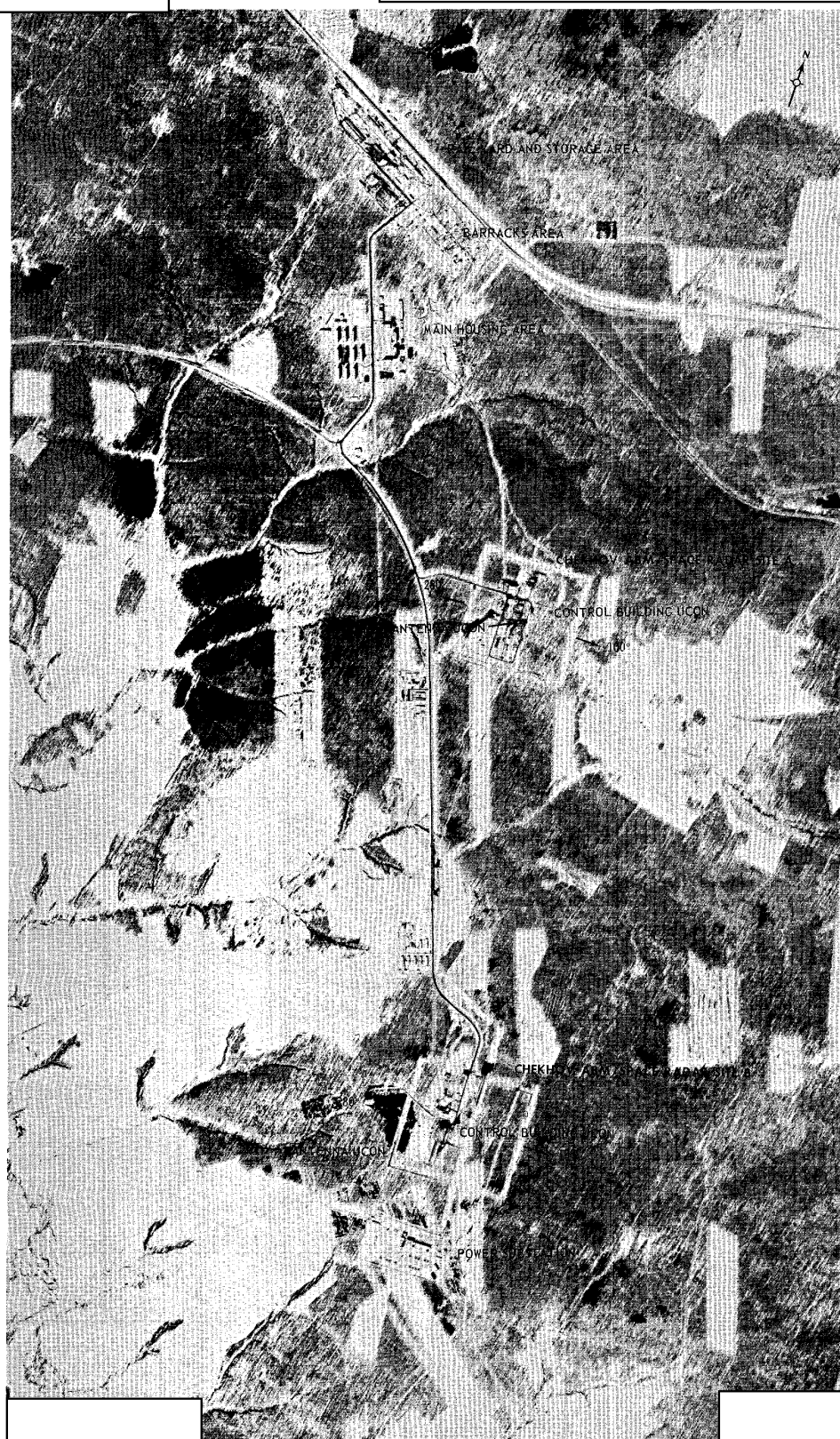
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FIGURE 7. CHEKHOV ABM/SPACE RADAR SITES A AND B

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[redacted] photography showed that significant construction has been accomplished at both sites [redacted]. At radar site A, the initial emplacement of a segment of an antenna structure is probably underway. At least five probable structural members, perpendicular to the long axis of the antenna foundation and spaced approximately [redacted] apart, are observed on the antenna footings closest to the control building. Two or more of these members may be slightly inclined, but probably are not set in their final positions. Footings are now present within the central linear foundation excavation.

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The control building is in a midstage of construction, and it is approximately [redacted]. An open trench, which may contain conduits, extends westward from the vicinity of the control building and the antenna foundation, along the northern side of the materiel storage area, and then extends southwestward toward the road which connects radar sites A and B. Presently, open trenching does not extend beyond the perimeter of the radar site. Approximately three-quarters of the materiel storage area is occupied by crates. Security fencing is being installed along the western perimeter of the area.

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At radar site B, the A-frame structure for the antenna has been extended nearly the length of the antenna foundation. At least one additional story has been built on the control building which is now approximately [redacted] overall. Although numerous crates and construction materials are in the vicinity of the control building, there are none in the materiel storage area. An open trench extends from the vicinity of the control building westward through the perimeter fence scar and is split into two parallel trenches.

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Security fencing is being installed around the perimeter of radar site B. The trench from the power substation has been extended through the area of radar site B, to beyond the northern security fence scar. Tree clearance suggests that this trench will eventually be adjacent and parallel to the road which connects the two radar sites. Some open trenching is adjacent to the eastern side of the road.

No significant changes have been observed in the support facilities.

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